Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-42 are pending. Claims 13-26 are allowed. Independent claim 1 is amended. The remaining claims are unchanged.

1. (Currently Amended): A virtual machine configurable to function as a browsable virtual machine (browsable VM), the virtual machine comprising:

a request handler worker for handling an incoming query relating to an operational state of the virtual machine;

a plurality of services wherein a service performs operations for replying to the incoming query; and

an operations worker for generating output containing a reply to the incoming query, using at least one of the plurality of services, wherein the reply provides state information regarding the operation of the virtual machine, the reply in a format suitable for a browser.

2. (Original): A virtual machine as recited in claim 1 wherein the request handler worker is an HTTP thread.

3. (Original): A virtual machine as recited in claim 2 wherein the incoming query is in HTTP format.

4. (Previously Amended): A virtual machine as recited in claim 1 wherein the request handler worker further includes a query parser for parsing the incoming query such that one of the plurality of services is identified for use by the operations worker to generate the reply to the incoming query.

5. (Original): A virtual machine as recited in claim 1 wherein the request handler worker is created upon starting up the virtual machine.

6. (Original): A virtual machine as recited in claim 1 wherein the request handler worker functions as a network traffic manager for routing queries and responses.

7. (Original): A virtual machine as recited in claim 1 wherein the plurality of services contains an index of available services and parameters for each service.

8. (Original): A virtual machine as recited in claim 1 wherein the operation worker is a virtual machine operations thread.

9. (Original): A virtual machine as recited in claim 1 further including a request data structure for transferring data between the request handler worker and the operations worker.

10. (Previously Amended): A virtual machine as recited in claim 9 wherein the request handler worker creates the request data structure that identifies one of the plurality of services to be used by the operations worker for generating the reply to the incoming query.

11. (Previously Amended): A virtual machine as recited in claim 9 wherein the request data structure has a service pointer area that identifies the one of the plurality of services to be used by the operations worker for generating the reply to the incoming query, a response buffer area, and a segment query area.

12. (Original): A virtual machine as recited in claim 1 wherein the virtual machine is a Java™ virtual machine.

13. (Previously Amended): A method of handling an incoming request, in a virtual machine configurable to function as a browsable virtual machine (browsable VM), the method comprising:

invoking a network traffic worker for receiving the request, the request relating to an operational state of the virtual machine;

receiving the request from a browser;

processing the request to determine a service needed to respond to the request;

creating a request data structure that identifies the service needed to respond to the request;

effecting a response to the request by passing the request data structure to a virtual machine operations worker, wherein the response provides state information regarding the operation of the virtual machine based on the request data structure; and

transmitting the response to the browser.

14. (Original): A method as recited in claim 13 further including invoking a web server in the virtual machine.

15. (Original): A method as recited in claim 14 further including creating a request thread.

16. (Original): A method as recited in claim 15 wherein receiving a request from a browser further includes establishing a secure HTTP connection where the request is an HTTP request.

17. (Original): A method as recited in claim 13 wherein processing the request further includes parsing the request into segments thereby determining the service needed to respond to the request.

18. (Original): A method as recited in claim 17 further including creating a pointer to the service in a service library.

19. (Previously Amended): A method as recited in claim 13 wherein creating a request data structure further includes:

creating a first storage area for holding a pointer to the service needed to respond to the request;

creating a second storage area for holding a segment of the request; and

creating a third storage area for holding a response to the request.

20. (Original): A method as recited in claim 19 further including generating an HTTP response containing an HTML document into the third storage area of the request data structure.

21. (Original): A method as recited in claim 19 further including generating XML pages into the third storage area of the request data structure.

22. (Original): A method as recited in claim 13 further including performing operations in the virtual machine using the service and under the control of the virtual machine operations worker.

23. (Original): A method as recited in claim 13 further including stopping normal operation of the virtual machine while the request is acted upon.

24. (Original): A method as recited in claim 13 further including sending a response from the virtual machine operations worker to the network traffic worker.

25. (Original): A method as recited in claim 13 wherein transmitting the response to the browser further includes the network traffic manager sending the response to the browser.

26. (Previously Amended): A computer-readable medium containing programmed instructions arranged to handle an incoming request, in a virtual machine configurable to function as a browsable virtual machine (browsable VM), the computer-readable medium including programmed instructions for:

invoking a network traffic worker for receiving the request, the request relating to an operational state of the virtual machine;

receiving the request from a browser;

processing the request to determine a service needed to respond to the request;

creating a request data structure identifying the service needed to respond to the request;

effecting a response to the request by passing the request data structure to a virtual machine operations worker, wherein the response provides state information regarding the operation of the virtual machine based on the request data structure; and

transmitting the response to the browser.

27. (Previously Presented): A virtual machine as recited in claim 1 wherein the state information includes application runtime information.

28. (Previously Presented): A virtual machine as recited in claim 1 wherein the state information includes steady-state runtime information.

29. (Previously Presented): A virtual machine as recited in claim 1 wherein the state information includes memory information.

30. (Previously Presented): A virtual machine as recited in claim 1 wherein the state information includes thread information.

31. (Previously Presented): A virtual machine as recited in claim 1 wherein the state information includes object information.

32. (Previously Presented): A virtual machine as recited in claim 1 wherein the state information includes profiling information.

33. (Previously Presented): A virtual machine as recited in claim 1 wherein the plurality of services include a heap objects service.

34. (Previously Presented): A virtual machine as recited in claim 1 wherein the plurality of services include a profiling service.

35. (Previously Presented): A virtual machine as recited in claim 1 wherein the plurality of services include a memory usage service.

36. (Previously Presented): A virtual machine as recited in claim 1 wherein the plurality of services include a threads service.

37. (Previously Presented): A method as recited in claim 13 wherein the state information includes application runtime information.

38. (Previously Presented): A method as recited in claim 13 wherein the state information includes steady-state runtime information.

39. (Previously Presented): A method as recited in claim 13 wherein the state information includes memory information.

40. (Previously Presented): A method as recited in claim 13 wherein the state information includes thread information.

41. (Previously Presented): A method as recited in claim 13 wherein the state information includes object information.

42. (Previously Presented): A method as recited in claim 13 wherein the state information includes profiling information.